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ANSWER 1 OF 1 CA COPYRIGHT 2005 ACS on STN
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      ***133:17460***
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ED
    Entered STN: 30 Jun 2000
     Inclusion and resolution process in preparation of optical pure
TI
    benzimidazoles as medicines useful in resisting peptic ulcers
    Deng, Jingen; Chi, Yongxiang; Zhu, Jin; Peng, Xiaohua; Jiang, Yaozhong;
IN
     Fu, Fangmin; Cui, Xin
     Chengdu Inst. of Organic Chemistry, Chinese Academy of Sciences, Peop.
PΑ
     Rep. China
     Faming Zhuanli Shenqing Gongkai Shuomingshu, 12 pp.
SO
    CODEN: CNXXEV
     Patent
DT
LA
    Chinese
IC
     ICM C07D401-12
     ICS A61K031-44
     28-9 (Heterocyclic Compounds (More Than One Hetero Atom))
CC
     Section cross-reference(s): 63
FAN.CNT 1
                                            APPLICATION NO.
                                                                   DATE
     PATENT NO.
                        KIND
                                DATE
                                            CN 1998-124029
                                                                   19981228
PΙ
     CN 1223262
                         Α
                                19990721
                         В
                                20020717
     CN 1087739
PRAI CN 1998-124029
                                19981228
CLASS
                CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                 ICM
 CN 1223262
                        C07D401-12
                 ICS
                        A61K031-44
     Six benzimidazole-type antiulcer agents timoprazole, picoprazole,
AΒ
     omeprazole, lansoprazole, pantoprazole, and E-3,810 are resolved by
     embedding antiulcer agent with optical purity embedding agent at a mole
     ratio of 1:0.5-2.0 in org. solvent at 60-130.degree. for 12-72 h, standing
     at (-20)-10.degree. for 6-36 h, filtering to obtain one optical
     configuration solid inclusion compd. and another optical configuration
     filtrate, sepg. resp. solid and filtrate by silica gel column with EtOAc-
     petroleum ether (1:1-5)-alc. as gradient eluent, and/or recrystg. in
     haloalkane-ether (1:05-6) to obtain racemic solid and optical purity
     filtrate. The embedding agent is selected from 6,6'-di(R1)-2,2'-
     dihydroxy-1,1'-binaphthyl, 10,10'-dihydroxy-9,9'-biphenanthrenyl,
     trans-2-R2-4,5-di(.alpha.-hydroxy-.alpha.-phenylbenzyl)-1,3-dioxolane, and
     R3-CO-CH(O-R4)-CH(O-R4)-CO-R3 (R1 = H, Br, or CH3; R2 = H, cyclohexyl, or
     cyclopentyl; R3 = H, Et, NMe2, or N(C6H11)2; and R4 = H, or CH3); the org.
     solvent from arene, acetonitrile, and arene-n-hexane (0.5-6:1); and the
     alc. from one or more of ethanol, methanol, isopropanol, and butanol.
     benzimidazole prepn resoln antiulcer agent; inclusion compd resoln
ST
IT
     Antiulcer agents
     Stereoisomers
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
        as medicines useful in resisting peptic ulcers)
IT
     Resolution (separation)
        (stereo; inclusion and resoln. process in prepn. of optical pure
        benzimidazoles as medicines useful in resisting peptic ulcers)
IT
     Inclusion compounds
     RL: PUR (Purification or recovery); RCT (Reactant); PREP (Preparation);
     RACT (Reactant or reagent)
        (stereo; inclusion and resoln. process in prepn. of optical pure
        benzimidazoles as medicines useful in resisting peptic ulcers)
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60-29-7, Ether, uses 64-17-5, Ethanol, uses 67-56-1, Methanol, uses
IT
     67-63-0, Isopropanol, uses 67-66-3, uses 71-36-3, Butanol, uses
     71-43-2, Benzene, uses 75-09-2, Dichloromethane, uses
                                                               107-06-2,
                              108-20-3, Isopropyl ether 108-67-8,
     1,2-Dichloroethane, uses
                                   108-88-3, Methylbenzene, uses
                                                                   110-54-3,
     1,3,5-Trimethylbenzene, uses
                                                             142-96-1, Butyl
    Hexane, uses 141-78-6, Acetic acid ethyl ester, uses
            1330-20-7, Dimethylbenzene, uses
     RL: NUU (Other use, unclassified); USES (Uses)
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
        as medicines useful in resisting peptic ulcers)
     272457-44-0P
                  272457-45-1P 272457-46-2P
                                                 272457-47-3P
                                                                272457-48-4P,
IT
                                                                272776-10-0P
                  272457-49-5P
                                 272458-70-5P
                                                272776-09-7P
     preparation
                   272776-12-2P
                                  272776-13-3P
                                                 272776-14-4P
     272776-11-1P
     RL: PNU (Preparation, unclassified); RCT (Reactant); PREP (Preparation);
     RACT (Reactant or reagent)
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
        as medicines useful in resisting peptic ulcers)
                   177795-60-7P
     138530-94-6P
IT
     RL: PNU (Preparation, unclassified); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
        as medicines useful in resisting peptic ulcers)
                                 138530-95-7P
                  119141-89-8P
                                                177795-59-4P
IT
     119141-88-7P
     RL: PUR (Purification or recovery); THU (Therapeutic use); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
        as medicines useful in resisting peptic ulcers)
                                     18531-94-7
                                                  18531-99-2
                                                                26549-29-1
                         7305-62-6
IT
     87-91-2, reactions
                                                         114026-70-9
                                           103577-45-3
     65283-60-5
                 73590-58-6
                              95033-75-3
                                117976-90-6
                                               127103-49-5
     114026-76-5
                   114596-71-3
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (inclusion and resoln. process in prepn. of optical pure benzimidazoles
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as medicines useful in resisting peptic ulcers)